

1. (Amended) A method of quantifying a substrate in a sample which method comprises the steps of:

(a) contacting a sample containing a substrate with a reaction reagent comprising at least a dehydrogenase, a coenzyme, an electron mediator and a tetrazolium salt performing an enzyme reaction and a redox reaction between which produces a water-soluble, stable formazan, then,

a² (b) detecting the water-soluble formazan formed as the final reaction product using an electrode system made of electrically conductive materials, and

(c) correlating an increase in electrical current in the electrode system with a quantity of substrate in the sample.

Add the following new claims:

6. (New) The method as claimed in claim 1 wherein said tetrazolium salt is (2-(4-indophenyl)-3-(4-nitrophenyl)-5-(2,4-disulfophenyl)-2H-tetrazolium.

7. (New) The biosensor of claim 4 wherein said tetrazolium salt is (2-(4-indophenyl)-3-(4-nitrophenyl)-5-(2,4-disulfophenyl)-2H-tetrazolium.

8. (New) The biosensor according to claim 4, 5 or 7 wherein the following three components (a), (b) and (c) are individually immobilized on the electrode system:

(a) said tetrazolium salt, a dehydrogenase and a coenzyme thereof;

(b) an electron mediator; and

(c) components of a buffer.

Attached: Terminal Disclaimer